

Appl. No. 10/825,271
Amdt. dated February 15, 2006
Reply to Office action of November 15, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1 (Currently Amended). A method for adjusting keystoneing in a projector, comprising:
 - (a) sensing using an imaging device to sense an indication of the height of a projection screen and the width of said projection screen;
 - (b) determining without user input an aspect ratio for said projection screen;
 - (c) determining a transformation to adjust the keystoneing of an image projected from said projector based upon said aspect ratio;
 - (d) modifying said image projected from said projector in accordance with said transformation;
 - (e) projecting said modified image from said projector[[,]].

2 (Original). The method of claim 1 wherein said imaging device and said projector are maintained in a fixed relationship with respect to each other.

3 (Original). The method of claim 1 further comprising selecting an aspect ratio for said projection screen from a predetermined set of aspect ratios.

4 (Original). The method of claim 1 wherein said determining said aspect ratio is based upon a plurality of height measurements.

5 (Original). The method of claim 1 wherein said determining said aspect ratio is based upon a plurality of width measurements.

6 (Original). The method of claim 1 wherein said determining is based upon a plurality of height measurements and a plurality of width measurements.

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7 (Original). The method of claim 3 wherein said set of aspect ratios includes all of 1:1, 4:3, and 16:9.

8 (Original). The method of claim 1 wherein said imaging device is integral with said projector.

9 (Currently Amended). A method for sensing a projection screen with a projector, comprising:

- (a) sensing using an imaging device to sense an indication of the height of a projection screen and the width of said projection screen;
- (b) determining without user input an aspect ratio for said projection screen;
- (c) projecting an image from said projector onto said projection screen.

10 (Original). The method of claim 9 further comprising:

- (a) determining a transformation to adjust the keystoneing of said image projected from said projector based upon said aspect ratio;
- (b) modifying said image projected from said projector in accordance with said transformation.
- (c) projecting said modified image from said projection onto said projection screen.

11 (Original). The method of claim 9 wherein said imaging device is integral with said projector.

12 (Original). The method of claim 9 wherein said imaging device and said projector are maintained in a fixed relationship with respect to each other.

13 (Original). The method of claim 9 further comprising selecting an aspect ratio for said projection screen from a predetermined set of aspect ratios.

14 (Original). The method of claim 9 wherein said determining said aspect ratio is based upon a plurality of height measurements.

15 (Original). The method of claim 9 wherein said determining said aspect ratio is based upon a plurality of width measurements.

16 (Original). The method of claim 9 wherein said determining is based upon a plurality of height measurements and a plurality of width measurements.

17 (Original). The method of claim 9 wherein said set of aspect ratios includes all of 1:1, 4:3, and 16:9.

18 (Currently Amended). A method for adjusting keystoneing in a projector, comprising:

- (a) sensing using an imaging device to sense the boundaries of a projection screen;
- (b) decreasing the scale of an image to be projected in accordance with on said projection screen based on sensed said boundaries;
- (c) determining without user input a transformation to adjust the keystoneing of an image projected from said projector based upon said projection screen;
- (d) modifying said image projected from said projector in accordance with said transformation;
- (e) projecting said modified image from said projector,

19 (Original). The method of claim 18 further comprising determining an aspect ratio for said projection screen.

20 (Original). The method of claim 18 wherein said imaging device and said projector are maintained in a fixed relationship with respect to each other.

21 (Original). The method of claim 19 wherein said determining said aspect ratio is based upon a plurality of height measurements.

22 (Original). The method of claim 19 wherein said determining said aspect ratio is based upon a plurality of width measurements.

23 (Original). The method of claim 19 wherein said determining is based upon a plurality of height measurements and a plurality of width measurements.

24 (Original). The method of claim 19 wherein said imaging device is integral with said projector.

25 (Original). The method of claim 18 wherein said image to be projected from said projector prior to said decreasing is fully covers said projection screen.

26 (Original). The method of claim 18 wherein said image to be projected from said projector prior to said decreasing only partially covers said projection screen.

27 (Original). The method of claim 18 wherein said image to be projected from said projector prior to said decreasing extends beyond the boundary of a portion of said projection screen and does not project on a portion of said projection screen.

28 (Currently Amended). A method for sensing a projection screen with a projector, comprising:

- (a) sensing using an imaging device to sense a projection screen;
- (b) sensing the boundary color of said projection screen;
- (c) modifying said image based upon said boundary color;
- (c) projecting said modified image from said projector onto said projection screen.

29 (Original). The method of claim 28 further comprising:

- (a) determining a transformation to adjust the keystoneing of said image projected from said projector based upon said aspect ratio;
- (b) modifying said image projected from said projector in accordance with said transformation.
- (c) projecting said modified image from said projection onto said projection screen.

30 (Original). The method of claim 28 wherein said boundary color is categorized as either relatively dark or relatively light.

31 (Original). The method of claim 30 wherein if said boundary color is relatively dark said modified image is permitted to extend onto said boundary color.

32 (Original). The method of claim 30 wherein if said boundary color is relatively light said modified image is not permitted to extend onto said boundary color.